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(Based on PTO 04-07 version)

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/591,471		
		Filing Date	September 1, 2006		
		First Named Inventor	Katsumi Furuya		
		Art Unit	2874		
		Examiner Name	Not Yet Assigned Leung		
Sheet	1	of	3	Attorney Docket Number	HZA-0003

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)					
/QL/	BA	JP-2004-045709-A		02-12-2004	NEC Corp. et al.		
	BB	JP-2004-004419-A		01-08-2004	Japan Science & Technology Corp.		
	BC	JP-2003-215367-A		07-30-2003	Mitsubishi Electric Corp.		
	BD	JP-2003-156642-A		05-30-2003	NTT Corp.		
	BE	JP-2003-043273-A		02-13-2003	Hitachi Cable Ltd		3
	BF	JP-2002-303836-A		10-18-2002	NEC Corp		
	BG	JP-2002-277659-A		09-25-2002	NTT Corp.		3
	BH	JP-2002-196296-A		07-12-2002	Mitsubishi Electric Corp		3
	BI	JP-2002-169048-A		06-14-2002	NEC Corp Autocloning Technology KK		3
	BJ	JP-2001-249235-A		09-14-2001	NTT Corp.		3
	BK	JP-2001-281480-A		10-10-2001	NEC Corp.		3
	BL	JP-2001-072414-A		03-21-2001	Japan Science & Technology Corp		
	BM	JP-2001-518707-A		10-16-2001	SIEMENS Aktiengesellschaft	not provided	3
	BN	WO-99/17349-A		04-08-1999	SIEMENS Aktiengesellschaft		3

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/QL/	CA	A. Martinez, et al., "Ultrashort 2-D Photonic Crystal Directional Couplers", IEEE Photonics Technology Letters, Vol. 15, No. 5 pp. 694-696 (05/2003)	
	CB	Morten Thorhauge, et al., "Efficient photonic crystal directional couplers", Optics Letters, Vol. 28, No. 17, pp. 1525-1527 (09/01/2003)	
	CC	Katsumi Furuya et al., "Design of small optical switch with 4-port directional coupler in two-dimensional photonic crystal slab", Photonic Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), p. 203	
	CD	Katsumi Furuya et al., "Theoretical study for shortening optical switch with 4-port directional coupler in 2-D photonic crystal slab", The 51st Japan Society of Applied Physics Academic Lecture Materials, p.1165, (03/2004)	
	CE	Noritsugu Yamamoto et al., "Photonic crystal waveguide directional coupler with short coupling	

Examiner Signature	/Quyen Leung/	Date Considered	01/01/2008
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			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	2	of	3	Attorney Docket Number	HZA-0003

not provided

/QL/		length and high extinction ratio", The Institute of Electronics, Information and Communication Engineers, Technical Report of IEICE, pp. 67-70 (07/2004)	
	CF	Stefano Boscolo et al., "Coupling and Decoupling of Electromagnetic Waves in Parallel 2-D Photonic Crystal Waveguides", IEEE Journal of Quantum Electronics Vol. 38, No.1, pp. 47-53, (01/2002)	
	CG	M. Tokushima et al., "Photonic crystal line defect waveguide directional coupler", Electronics Letters, Vol. 37, No. 24, pp. 1454-1455 (11/2001)	
	CH	J. Zimmermann et al, "Photonic crystal waveguide directional couplers as wavelength selective optical filters", Optics Communications 230, pp. 387-392 (02/2004)	
	CI	"Recent progress and future prospects of photonic crystal research - Revised Edition - Toward a technology roadmap (Photonic crystal breakthrough technology forum)", Optoelectronic Industry and Technology Development Association, 14-013-1, pp. 34-36 (03/2002)	
	CJ	H. Yamada, "Theoretical analysis of photonic crystal directional coupler based optical switches", Institute of Electronics, Information and Communication Engineers Electronics Society Conference, C-4-7, pp249 (2002).	
	CK	K. Tajima, "All-Optical Switch with Switch-Off Time Unrestricted by Carrier Lifetime", Jpn. J. Appl. Phys. Vol. 32 Part 2 No. 12A, pp. L1746-L1749 (12/01/1993).	
	CL	K. Kishioka, "Characteristics of the Optical Resonator Composed of the Nonlinear Directional Coupler", IEEE Trans. FM., Vol.123, No.12 (2003).	
	CM	M. Tokushima et al., "Photonic crystal line defect waveguide directional coupler", Electronics Letters, Vol.37, No.24, pp. 1454-1455 (11/22/2001).	
	CN	H. Benisty et al., "Models and Measurements for the Transmission of Submicron-Width Waveguide Bends Defined in Two-Dimensional Photonic Crystals", IEEE Journal of Quantum Electronics, Vol.38, No.7, pp.770-785 (07/2002).	
	CO	J. Moosburger et al., "Enhanced transmission through photonic-crystal based bent waveguides by bend of engineering", Applied Physics Letters, Vol. 79, No.22, pp. 3579-3581 (11/26/2001).	
	CP	A. Talneau et al., "Photonic-crystal ultrashort bends with improved transmission and low reflection at 1.55µm", Applied Physics Letters, Vol. 80, No.4, pp. 547-549 (01/28/2002)	
	CQ	Noritsugu Yamamoto et al., "Photonic crystal directional coupler with short coupling length and high extinction ratio", The 65th Japan Society of Applied Physics Academic Lecture Materials, p.936, Tohoku Gakuin University (09/2004)	
	CR	Toru Ogawa et al., "Photonic crystal directional coupler switch with short switching length and wide band width", The 65th Japan Society of Applied Physics Academic Lecture Materials, p.936, Tohoku Gakuin University (09/2004)	
	CS	Daisuke Mori et al., "Dispersion-Controlled Group Delay Device by Index-Chirped Photonic Crystal Waveguide Directional Coupler", The 51st Japan Society of Applied Physics Academic Lecture Materials, p.1147, Tohoku Gakuin University (03/2004)	
	CT	International Preliminary Report mailed on December 7, 2006.	
	CU	International Search Report mailed on July 5, 2005.	
	CV	International Preliminary Report mailed on September 14, 2006.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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